

Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

1. (Currently amended) A mosquito misting system comprising:
 - a) a fluid reservoir for containing fluid insecticide;
 - b) a misting nozzle for dispersal of fluid insecticide;
 - c) a conduit for transmitting fluid insecticide from the reservoir to the nozzle;
 - d) a pump for flowing fluid insecticide through the conduit;
 - e) an agitator having a pump for drawing outside air from an outside air inlet and into the fluid reservoir for mixing of fluid insecticide within the reservoir; and
 - f) a programmable controller for selectively operating the pump and the agitator in accordance with pre-programmed control parameters.

2. (Currently Amended) The mosquito misting system of claim 1 further comprising a level sensor assembly having a plurality of floating sensor assemblies located at selected levels within the reservoir, the level sensor further providing a signal to the controller indicative of the level of fluid insecticide within the reservoir.

3. (Previously presented) The mosquito misting system of claim 1 further comprising a pressure switch operably associated with the fluid conduit to detect a pressure drop within the conduit and stop the pump in the event such a drop is detected.

4. (Previously presented) The mosquito misting system of claim 1 further comprising a remote control for operation of the controller.

5. (Previously presented) The mosquito misting system of claim 1 further comprising a transmitter for transmission of selected information relating to the system to a remote monitoring location.

6. (Currently Amended) The mosquito misting system of claim 5 further comprising:

a level sensor assembly having a plurality of float sensor assemblies located at selected levels within the reservoir, the level sensor further providing a signal to the controller indicative of the level of fluid insecticide within the reservoir; and

wherein the selected information includes an indicator of a level of fluid insecticide remaining in the fluid reservoir.

7. (Currently Amended) The mosquito misting system of claim 5 further comprising:

a pressure switch operably associated with the fluid conduit to detect a pressure drop within the conduit; and

wherein the selected information includes an indicator of low pressure within the fluid conduit.

8. (Currently Amended) The mosquito misting system of claim 5 further comprising:

a global positioning system for obtaining a physical location of the system; and
wherein the selected information includes information relating to a physical location of the system.

9. (Currently Amended) The mosquito misting system of claim 5 wherein:
the controller includes stored programmed information identifying an owner of the system; and

the selected information includes information identifying an owner of the system.

10. (Previously presented) The mosquito misting system of claim 1 further comprising a moisture sensor for detection of rain proximate the system, the moisture sensor being operably associated with the controller so that detection of an unsuitable weather condition will result in cancellation of a spray cycle.

11. (Currently amended) A mosquito misting system comprising:

- a) a fluid reservoir for containing fluid insecticide;
- b) a misting nozzle for dispersal of fluid insecticide;
- c) a conduit for transmitting fluid insecticide from the reservoir to the nozzle;
- d) a pump for flowing fluid insecticide through the conduit;
- e) a programmable controller for selectively operating the pump ~~and the agitator~~
in accordance with pre-programmed control parameters; and

- f) a level sensor assembly having a plurality of floating sensor assemblies for detection of a liquid level within the fluid reservoir.
12. (Previously presented) The mosquito misting system of claim 11 wherein the level sensor assembly provides a signal to the controller indicative of the liquid level and the controller provides a display of the liquid level.
13. (Previously presented) The mosquito misting system of claim 11 further comprising an agitator for drawing outside air into the fluid reservoir for mixing of fluid insecticide within the reservoir and
wherein the controller causes the agitator to operate for mixing of insecticide in conjunction with operation of the pump.
14. (Previously presented) The mosquito misting system of claim 11 further comprising a pressure switch operably associated with the fluid conduit to detect a pressure drop within the conduit and turn off the pump in the event such a drop is detected.
15. (Previously presented) The mosquito misting system of claim 14 wherein the pressure switch provides a signal to the controller indicating a pressure drop in the event a pressure drop in the conduit is detected.
16. (Previously presented) The mosquito misting system of claim 11 further comprising a remote control for operation of the controller.

17. (Previously presented) The mosquito misting system of claim 11 further comprising a transmitter for transmission of selected information relating to the system to a remote monitoring location.

18. (Currently Amended) The mosquito misting system of claim 17 wherein:
the level sensor assembly provides an indicator of a level of fluid insecticide within the fluid reservoir; and
the selected information includes an indicator of a level of fluid insecticide remaining in the fluid reservoir.

19. (Currently Amended) The mosquito misting system of claim 17 further comprising:
a pressure switch operably associated with the fluid conduit to detect a pressure drop within the conduit; and
wherein the selected information includes an indicator of low pressure in the fluid conduit.

20. (Currently Amended) A mosquito misting system comprising:

- a) a fluid reservoir for containing fluid insecticide;
- b) a misting nozzle for dispersal of fluid insecticide;
- c) a conduit for transmitting fluid insecticide from the reservoir to the nozzle;
- d) a pump for flowing fluid insecticide through the conduit;
- e) an agitator for drawing outside air into the fluid reservoir for mixing of fluid insecticide within the reservoir;

- f) a programmable controller for selectively operating the pump and the agitator in accordance with pre-programmed control parameters; and
- g) a level sensor assembly having a plurality of floating sensor assemblies for detection of a liquid level within the fluid reservoir and providing a signal indicative of such liquid level to the controller.